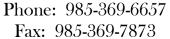


Texas Brine Company, LLC 1301 Highway 70

Belle Rose, LA 70341





January 17, 2014

Commissioner James H. Welsh P.O. Box 94275 Baton Rouge, LA 70804

RE: In response to State of Louisiana Department of Natural Resources Office of Conservation's Second Amendment to Declaration of Emergency and Directive

Commissioner Welsh,

In response to the Second Amendment and Declaration of Emergency and Directive order issued by the Louisiana Department of Natural Resources (LDNR), Office of Conservation on September 25, 2012, Texas Brine Company, LLC (TPC) understands the seven items listed in the document.

In the above mentioned, TBC was specifically directed and ordered to perform certain tasks outlined in the above mentioned document. Below are the required responses, as directed.

- 1. TBC's counsel provided LDNR legal counsel with a response to Directives 1-3 on September 28, 2012.
- 2. TBC understands Directive 4, which is to provide all daily logs and field notes from all contractors conducting investigation into subsidence and natural gas bubbling. The Daily Action Summary and results for current information can be found in the Attachment section of this report.
- 3. TBC understands Directive 5, which directs TBC to immediately allow for split or share any sample taken on site related to Well 3A (Serial Number 974265), the cavern, other wells facilities or other site locations. The Daily Action Summary of today's collection can be found in Attachment section of this report.
- 4. TBC understands Directive 6, which directs TBC to immediately report the results (final and preliminary) of any tests, logs samples or data collection performed on Well 3A, the cavern, other wells, facilities or site locations that indicate a change in any previously known conditions related to the investigation of the subsidence or natural gas bubbling

- events, and continue to report any such results. The Daily Action Summary and the Results related to this Directive can be found in Attachment section of this report.
- 5. TBC understands the Directive 7, which states that TBC will provide a daily summary of all tests, or logs performed or samples taken from Well 3A and the cavern as well as any results of those tests or logs, including preliminary as of September 25, 2012 and going forward. The Daily Summary and Results related to this Directive can be found in Attachment section of this report.

Please note that the drilling rig used for the Observation Well 3A has been removed and the site is being rigged down and returned to pre-drilling condition. As such, daily drilling reports for this well have ceased. Plans are being made for longer term potential gas venting/flaring requirements and possible hydrocarbon material recover from Well 3A.

In addition, previous daily summary reports issued to LDNR have included significant duplicate information as there is a fair amount of overlap in the information requested in each of the Directives included in the September 25, 2012 order. All requested information associated with the Directives issued in the September 25, 2012 order are included in the Attachment section of this report.

TBC believes that the submittal of this report satisfies the requirements of the Declaration of Emergency and Directive issued on September 25, 2012. As directed this report is submitted by email to conservationorder@la.gov, ref. "Emergency Declaration-Texas Brine Company LLC-9/25/2012.

Bruce E. Martin

Vice President, Operations

Bana EMart

Texas Brine Company, LLC



			TBC Oxy Gra	and Bayou Data Manag	ement-Envi	ronmental							
Contractor	Responsibilities	Coll	lected By	Date Collecte	ed	Delivered to Lab	Results from Lab	Laboratory	Method	Date to A	gencies		
Sage	Stationary Air Monitoring		- 07:15 - 11:30, Megan eRed) - 07:00 - 17:00	1/16/2014		NA	NA	NA	NA	1/17/	2014		
	Residential Air Monitoring	bimonthly resident Therefore, Sage	equested to suspend ential air monitoring. will discontinue these tivities.	NA		NA	NA	NA	NA	N.	4		
	Gas Seep Sampling	No wor	k performed	1/16/2014		NA	NA	NA	NA	N/	4		
	Well Gas Sampling	No wor	k performed	1/16/2014		NA	NA	NA	NA	N/	4		
	Under Slab Gas Sampling	No wor	k performed	1/16/2014		NA	NA	NA	NA	N/	Α		
	Indoor Air Monitoring	No wor	k performed	1/16/2014		NA	NA	NA	NA	N.	4		
Respec	Inclinometers/Tilt Meters/Transducers	1/16/2014	Relocate site 33.	Eric Krantz	NA	NA	NA		NA	NA	NA		
	InSAR Reflector Installations	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
	Subsidence Survey-Fenstermaker	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
	Shallow Geophone Installation	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
	Deep Geophone Installation	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
	Amendment #3, Directive #2	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
	Expansion of geoprobe gas sampling locations	1/16/2014 No work Conducted		NA	NA	NA	NA		NA	NA	NA		
	DPVE	1/16/2014	No work Conducted	NA	NA NA		NA		NA	NA	NA		
	Abandon Casing Survey	1/16/2014	No work Conducted	NA NA		NA	NA		NA	NA	NA		
	Passive Vent Wells	1/16/2014 Drill and Install P		John Knight NA		NA	NA		NA	NA	NA		
	MIHPT	1/16/2014	No work Conducted	NA	NA	NA	NA		NA	NA	NA		
Miller	Weekly Stability Survey		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Misc. Survey Work		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Sinkhole Hydro/Perimeter Survey		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
Pisani	Surface Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Sinkhole		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Industrial Well Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	MRAA Well Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	GP/ORW Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Cavern Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Discharge/Outfall Water		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
	Geoprobe Wells		NA	January 16, 20	014	NA	NA	NA	NA	N.	4		
				Grand Bayou We	II 3A								
	Daily Operations at 3A						of Today's events						
	1/17/2014	Oxy 3A 7:00am 1106.25 1/17/2014											
						Reli	ef Well #1						
	1/17/2014				See OR	W-01 Flare Spread	sheet (will be pro	vided 1/2/14)					



Daily Action Summary

January 16, 2014

Sinkhole Perimeter Air Monitoring and Neighborhood Air Monitoring

- The following locations are equipped with solar-powered weather boxes: Pad #9, TR-1a, ORW-11a, ORW-9a, ORW-5, and PVW-BS-56a. And, the following locations are equipped with electrical power: ORW-49-WH and ORW-50-WH. Thus, daily monitor change-out is no longer necessary. All monitors will continue to be calibrated and serviced as necessary.
- Bijeet Mukherjee onsite from 07:15 to 11:30. Assisted in deployment of monitors at the new neighborhood monitoring locations PVW-03 and PVW-03-S. Please see the attached map for location details.
- Megan Tramonte of Code Red (monitor sub-contractor) onsite from 07:00 to 17:00. Assisted in maintenance of the monitoring equipment as necessary.

Residential Air Monitoring

• Sage has been requested to suspend bimonthly residential air monitoring. Therefore, Sage will discontinue these activities. The last event was conducted on March 26, 2013.

Gas Seep Sampling

• Not Scheduled

Well Gas Sampling

Not Scheduled

Under Slab Gas Sampling

Not Scheduled

Air Indoor Monitoring

Not Scheduled

	Observation	Relief Well -49 at the	he Well Head	Observation l	Relief Well - 50 at th	ne Well Head	P	assive Vent Well -5	6	P	assive Vent Well -	03	Passive Vent Well - 03 Downwind Monitoring				
		ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03			PVW-03-S			
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)		
01/16/2014 01:00:00 AM	<1.0	0.0	20.5	<1.0	0.0	20.9	0.0	0.0	20.9			•			*		
01/16/2014 02:00:00 AM	<1.0	0.0	20.5	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 03:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 04:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9	RTU-6 was de	ployed at 08:00 AN	If on 01/16/2014	RTU-9 was de	ployed at 08:00 AN	If on 01/16/2014		
01/16/2014 05:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 06:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 07:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 08:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9	0.0	<1.0	21.0	0.0	0.0	21.0		
01/16/2014 09:00:00 AM	<1.0	0.0	20.5	<1.0	0.0	20.9	0.0	0.0	20.9	0.0	<1.0	21.0	0.0	0.0	21.0		
01/16/2014 10:00:00 AM	<1.0	0.0	20.6	<1.0	0.0	20.9	<1.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 04:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9		
01/16/2014 05:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 06:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 07:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 08:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 09:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.8		
01/16/2014 10:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0		
01/16/2014 11:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.8	<1.0	0.0	21.0		
01/17/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.5	0.0	0.0	21.0		

Notes

At approximately 17:00, when the drilling activities for 01/16/2014 were complete, RTU-9, located at PVW-03-S, was relocated to PVW-03 so that the monitor could be secure overnight. RTU-9 will be relocated to PVW-03-S before any drilling commences on 01/17/2014.

		Obser	vation Relief V	Well -5			Observ	ation Relief	Well - 9			Observ	vation Relief V	Well -11			So	outh of OG3A	-1			0	nsite Trailer	rs	
			ORW-5					ORW-9a			ORW-11a				Pad #9					TR-1a					
		Non-					Non-					Non-					Non-					Non-		ı	
		Methane					Methane					Methane					Methane					Methane			
Date-Time *	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL(%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
01/16/2014 01:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.6	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 03:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 04:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.7	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 08:00:00 AM	<1.0	0.0	0.0	0.0	20.7	<1.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 11:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9
01/16/2014 12:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 01:00:00 PM	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.2	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 03:00:00 PM	<1.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 04:00:00 PM	<1.0	0.0	0.0	0.0	21.0	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 05:00:00 PM	<1.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 06:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 07:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 08:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 09:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/16/2014 10:00:00 PM	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/16/2014 11:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 12:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9

Notes:



PVW-03 and PVW-03-S Monitoring Locations
January 16, 2014



	Observation	Relief Well -49 at tl	ne Well Head	Observation I	Relief Well - 50 at t	he Well Head	P	assive Vent Well -	56	P	assive Vent Well -	03	Passive Vent Well - 03 Downwind Monitoring				
		ORW-49-WH			ORW-50-WH			PVW-BS-56a			PVW-03			PVW-03-S			
Date-Time *	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)	H2S (ppm)	LEL (%)	O2 (%)		
01/16/2014 05:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 06:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9	RTU-6 was dep	ployed at 08:00 AN	I on 01/16/2014	RTU-9 was deployed at 08:00 AM on 01/16/2014				
01/16/2014 07:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9								
01/16/2014 08:00:00 AM	<1.0	0.0	20.4	<1.0	0.0	20.9	0.0	0.0	20.9	0.0	<1.0	21.0	0.0	0.0	21.0		
01/16/2014 09:00:00 AM	<1.0	0.0	20.5	<1.0	0.0	20.9	0.0	0.0	20.9	0.0	<1.0	21.0	0.0	0.0	21.0		
01/16/2014 10:00:00 AM	<1.0	0.0	20.6	<1.0	0.0	20.9	<1.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 11:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	<1.0	0.0	21.0	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 12:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 01:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 02:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 03:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 04:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.9		
01/16/2014 05:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 06:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 07:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 08:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	21.0		
01/16/2014 09:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0	0.0	0.0	20.8		
01/16/2014 10:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	21.0		
01/16/2014 11:00:00 PM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.8	<1.0	0.0	21.0		
01/17/2014 12:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.5	0.0	0.0	21.0		
01/17/2014 01:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.2	0.0	0.0	20.8		
01/17/2014 02:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.6	0.0	0.0	21.0		
01/17/2014 03:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.8	0.0	0.0	21.0		
01/17/2014 04:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.8	0.0	0.0	21.0		
01/17/2014 05:00:00 AM	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.9	0.0	0.0	20.8	0.0	0.0	20.7		

Notes

At approximately 17:00, when the drilling activities for 01/16/2014 were complete, RTU-9, located at PVW-03-S, was relocated to PVW-03 so that the monitor could be secure overnight. RTU-9 will be relocated to PVW-03-S before any drilling commences on 01/17/2014.

		Observ	vation Relief	Well -5			Observ	Observation Relief Well - 9 Observation Relief Well - 11 South of OG3A-1									Onsite Trailers								
			ORW-5					ORW-9a					ORW-11a			Pad #9							TR-1a		
		Non-					Non-					Non-					Non-					Non-			ĺ
		Methane					Methane					Methane					Methane					Methane			I
Date-Time *	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	SO2 (ppm)	VOC (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CO (ppm) V	OC (ppm)	H2S (ppm)	LEL (%)	O2 (%)
01/16/2014 05:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 06:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 07:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 08:00:00 AM	<1.0	0.0	0.0	0.0	20.7	<1.0	0.0	0.0	0.0	20.5	<1.0	0.0	0.0	0.0	20.5	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 09:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	<1.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9
01/16/2014 10:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 11:00:00 AM	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.8	<1.0	0.0	0.0	0.0	20.9
01/16/2014 12:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	<1.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 01:00:00 PM	0.0	0.0	0.0	0.0	21.0	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 02:00:00 PM	0.0	0.0	0.0	0.0	21.2	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	21.2	0.0	0.0	<1.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 03:00:00 PM	<1.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	21.1	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 04:00:00 PM	<1.0	0.0	0.0	0.0	21.0	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 05:00:00 PM	<1.0	0.0	0.0	0.0	21.1	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 06:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 07:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 08:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9
01/16/2014 09:00:00 PM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/16/2014 10:00:00 PM	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/16/2014 11:00:00 PM	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 12:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 01:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 02:00:00 AM	<1.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 03:00:00 AM	<1.0	0.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 04:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	<1.0	0.0	0.0	20.9
01/17/2014 05:00:00 AM	<1.0	<1.0	0.0	0.0	20.9	0.0	<1.0	0.0	0.0	20.6	<1.0	<1.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	20.9	<1.0	0.0	0.0	0.0	20.9

Notes:

RESPEC Consulting & Services

Texas Brine, L.L.C.

Assumption Parish, Louisiana

Daily Field Report

Report By:	Crystal Hocking	Date: 1/16/20	14
Company:	RESPEC	Job #: 22	41

Personnel	Company	Job Title					
Eric Krantz	RESPEC	Staff Engineer					
John Knight	RESPEC	Staff Geologist					

Time Onsite: Start Time: 9:30 End Time: 16:30

DAILY ACTIVITY:

Instrumentation Program:

Relocate site 33 (dismantle and move housing, solar panel, datalogger, and inclinometer, and reinstall on new site 33). Test radio communication and cell modem connection. Move AR to new site.

Other Programs:

<u>Passive Vent Wells</u>: RESPEC observed WHE drilling for PVW-03. A soil boring was drilled and core was logged and photographed. Significant methane gas was detected in the first soil boring to support installation of the 2-inch PVW. The well was drilled (approx. TD = 31 ft bgs), screen placed (15 to 30 ft bgs), sand packed, and left overnight to set bentonite plug. PVW-03 well site is located approximately 20 feet west of GP-5.

Berm Mapping: No Work Conducted.

PROPOSED SCHEDULE:

Instrumentation Program:

Install structures and move equipment for site 89. Test radio and modem for deep array IPIs. **Tentative** installation of deep array inclinometers 1/22/14.

Other Programs:

<u>Passive Vent Wells:</u> PVW-03 will be grouted and well head assembled on 1/17/14. Retrofit wellhead for monitoring at GP-05. Installation of PVW-01 (near NSDMW-006) is planned for 1/18-1/19. **Tentative** installation of PVW-02 on 1/20-1/21. RESPEC will work with WHE and TBC to begin demobilizing the barge from PVW-56 (located near the former location of NSDBS-056).

Berm Mapping: Finish mapping berms west of sinkhole.		
	Initials:	CMH